

CHARACTERISTICS AT 25°C

Typical Input Characteristics

Common Emitter Circuit, Base Input
Collector-to-emitter volts (V_{CE}) = 10

AS303
AS304
AS305
AS306
AS307
AS308

Fig. 1
Input Capacitance C_{ie}
 C_{ie} is constant within
about 3% between
 $V_{CE} = 5$ and $V_{CE} = 15$

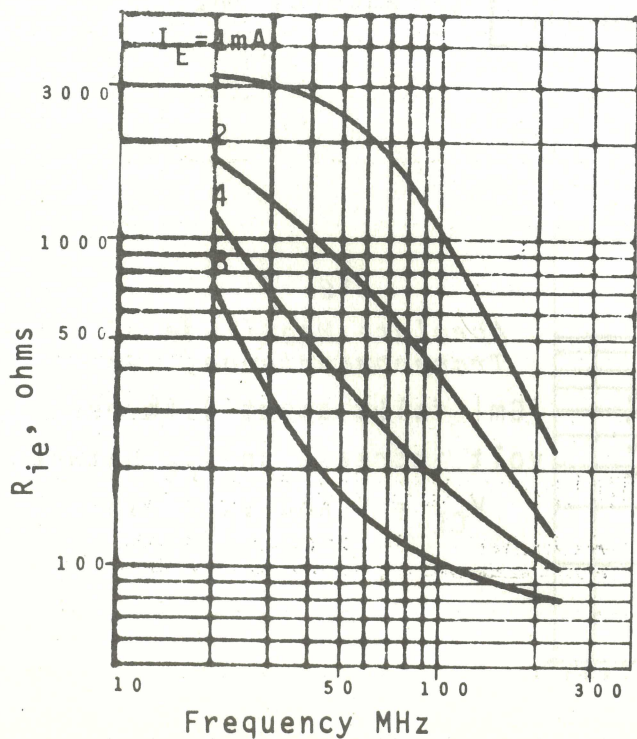
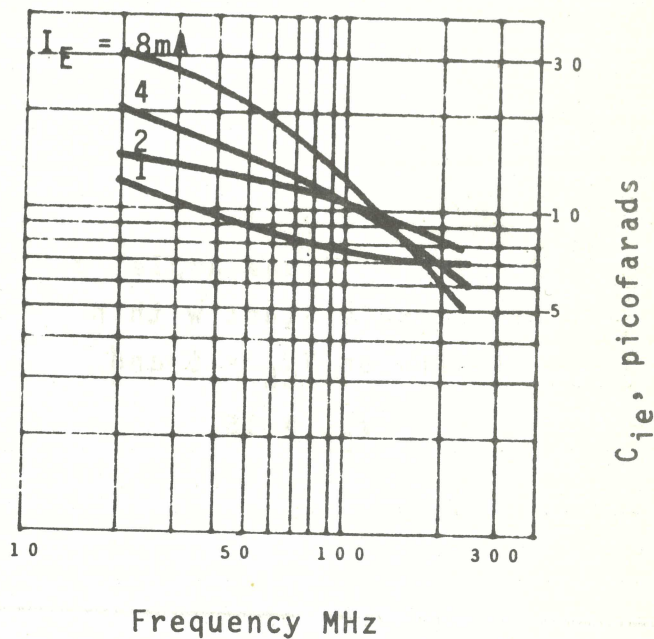


Fig. 2
Input Resistance R_{ie}
 R_{ie} increases about 2%
per volt increase
in V_{CE} between
 $V_{CE} = 5$ and $V_{CE} = 15$

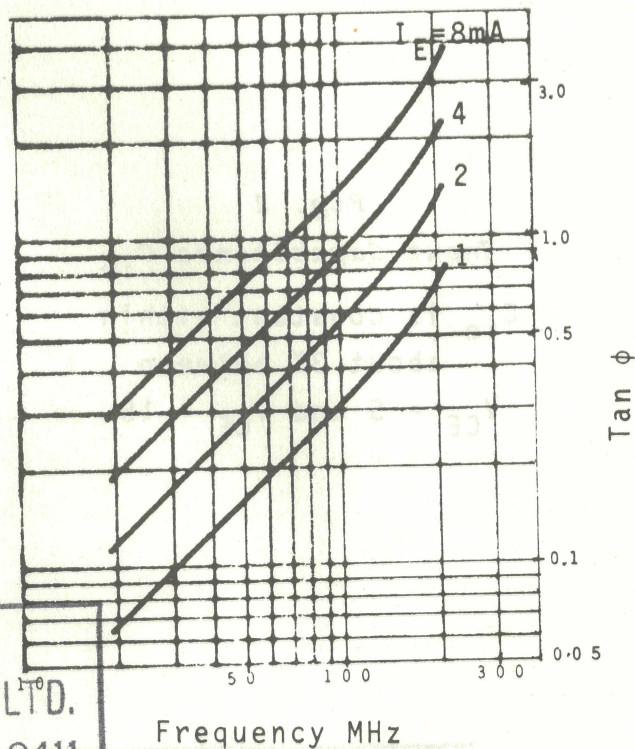
CHARACTERISTICS AT 25°C

Typical Transconductance Characteristics

Common Emitter Circuit, Base Input
Collector-to-emitter volts (V_{CE}) = 10

AS303
AS304
AS305
AS306
AS307
AS308

Fig. 3
Tangent of Phase Angle, ϕ
 $\tan \phi$ is constant within
1% between $V_{CE} = 5$ and
 $V_{CE} = 15$.



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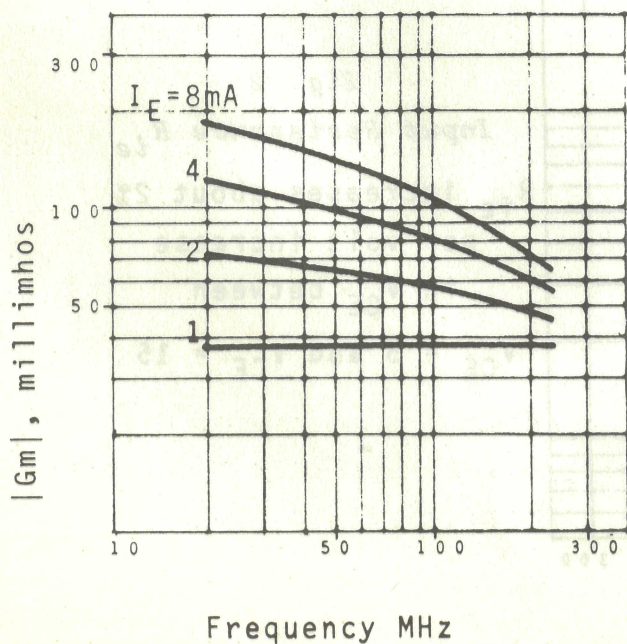


Fig. 4
Absolute Magnitude of
Transconductance, $|G_m|$
 $|G_m|$ falls about 0.4% per
volt increase in V_{CE} between
 $V_{CE} = 5$ and $V_{CE} = 15$

CHARACTERISTICS AT 25°C

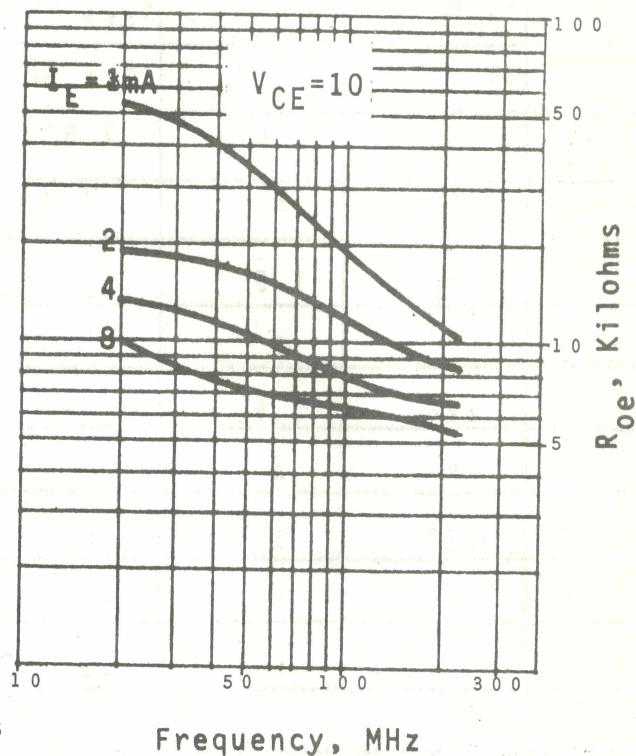
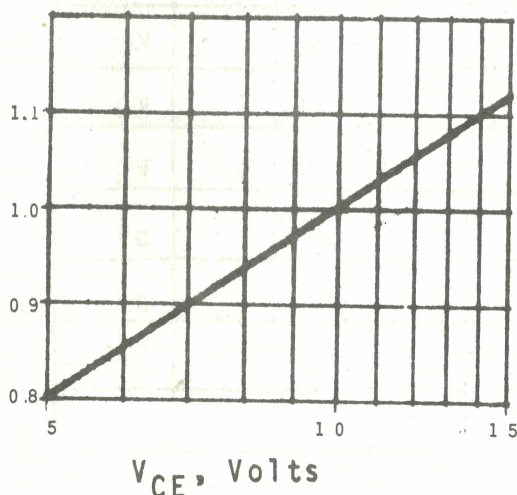
Typical Output and Feedback Characteristics
Common Emitter Circuit, Base Input

AS303
AS304
AS305
AS306
AS307
AS308

Fig. 5

Output Resistance, R_{oe}
 R_{oe} varies with
 V_{CE} approximately as
shown below:

Relative Value of R_{oe}



Output Capacitance, C_{oe} :

C_{oe} has typically the value 2.1 pF and is essentially independent of frequency, I_E and V_{CE} .

C_{re} , picofarads

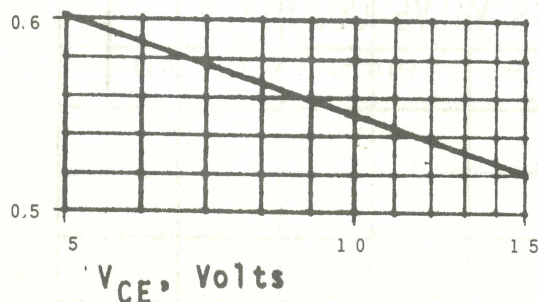


Fig. 6

Feedback capacitance, C_{re}
 C_{re} is essentially independent
of frequency and I_E

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